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NEW CHEMICAL BOOKS PUBLISHED IN THE USSR

1. "Transactions of the Commission on Analytical Chemistry" (Trudy Komis-sii po Analiticheskoy Khimii), Vol II, edited by Corresponding Member of the Academy of Sciences USSR A. P. Vinogradov, Department of Chemical Sciences, Academy of Sciences USSR, Moscow/Leningrad, 1949, 184 pages, 12 rubles.

Revised version of reports first read at a conference on polarography in Moscow in 1944.

2. "Diffraction of Electrons" (Difraktsiya Elektronov), Z. G. Pinsker, edited and with a forward by A. A. Lebedev, Academy of Sciences USSR, Moscow/Leningrad, 1949, 356 pages and 13 inclosures, 30 rubles.

This work gives the theoretical basis and experimental technique of electronography applicable to the problems of dispersion of electrons by crystals and molecules; the investigation of crystalline lattices; the processes of oxidation of metals and polished surfaces; amorphous substances and polymers. It is an exhaustive treatment, including the material written in the 21 years since the discovery of the phenomenon of the diffraction of electrons.

3. "Tables of Technical Standards for Petroleum Products" (Tablitsy Tekhnicheskikh Norm na Nefteprodukty), Nostoptekhzdat, Moscow/Leningrad, 1949, 124 pages, 6 rubles 50 kopeks.

GOST standards are given for fuels (gasoline, solar oil, motor fuel, mazut, ligroin, kerosene), illuminating kerosenes and solvent gasolines, oils, lubricating greases, vasoline, paraffins, mineral wax (ozokerite) products, asphalt, products of pyrolysis, coolants, and products obtained by treating coals and shales.

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4. "Nitration of Hydrocarbons and Other Organic Compounds" (Nitrovaniye Uglevodorodov i Drugikh Organicheskikh Soyedineniy), A. V. Topchiyev, edited by N. D. Zelinskiy, Department of Chemical Sciences, Academy of Sciences USSR, Moscow/Leningrad, 1949, 252 pages, 12 rubles.

Discusses the problem encountered in the nitration of aromatic heterocyclic compounds with nitric acid, of saturated aliphaticaromatic hydrocarbons with nitric acid, and of organic compounds with organic and inorganic nitrates.

5. "The Properties of Boron Fluoride as a Catalyst in Alkylation, Polymerization, and Condensation" (Svoystva Ftoristogo Bora Kak Katalizatora v Reaktsiyakh Alkilirovaniya, Polimerizatsii i Kondensatsii), A. V. Topchiyev and Ya. M. Paushkin, Gostoptekhizdat, Moscow/Leningrad, 1949, 152 pages, 12 rubles.

In addition to treating subject material, this book gives in a method for reclaiming the boron fluoride.

6. "Selected Works" (Izbrannyye Trudy), S. S. Nametkin, edited by Academicians N. D. Zelinskiy and B. A. Kazanskiy, Academy of Sciences USSR, Moscow/Leningrad, 1949, 816 pages and four enclosures, 60 rubles.

Material written by Nametkin between 1907 and 1946.

7. "History of Natural Science" (Istoriya Yestestvoznaniya), compiled by O. A. Starosel'skaya-Nikitina assisted by O. Z. Krasnoukhova and Yu. D. Katsenel'son, edited by D. D. Ivanov and N. A. Figurovskiy, Academy of Sciences USSR, Moscow/Leningrad, 1949, 516 pages, 55 rubles.

Bibliographical data on materials published from 1917 to 1947 by Soviet scientists.

8. "Basic Concepts of Contemporary Physics" (Osnovnyye Predstavleniya Sovremennoy Fiziki), Gostoptekhizdat, Moscow/Leningrad, 1949, 368 pages and one enclosure, 7 rubles 75 kopeks.

9. "Between Dust Particles and Molecules" (Mezhdru Pylinkami i Molekulami), B. N. Suslov, Gostekhizdat, Moscow/Leningrad, 1949, 56 pages, 1 ruble

10. "Qualitative Semimicroanalysis" (Kachestvennyy Polumikroanaliz), I. P. Alimarin and V. N. Arkhangel'skaya, Goskhimizdat, Moscow/Leningrad, 1949, 192 pages and four enclosures, 7 rubles 10 kopeks.

11. "Radioactive Elements" (Radioaktivnyye Elementy), S. Ye. Bresler, edited by Academicians S. I. Vavilov, A. S. Ioffe, T. I. Lukirskiy, and V. A. Fok, and Corresponding Member Ya. I. Frenkel', Gostekhizdat, Moscow/Leningrad, 1949, 308 pages and one enclosure, 11 rubles 40 kopeks.

12. "Thermodynamic Calculations of Fuel Industry Processes" (Termodinamicheskiye Raschety Protsessov Toplivoi Promyshlennosti), A. A. Vvedenskiy, Gostoptekhizdat, Moscow/Leningrad, 1949, 492 pages, 27 rubles.

Practical handbook for the petroleum-refining and fuel industry.

13. "The Chemistry of Petroleum, a Laboratory Handbook" (Khimiya Nefti, Rukovodstvo Laboratornym Zanyatiyam), V. I. Isagulyants and G. M. Yegorova, Goskhimizdat, Moscow/Leningrad, 1949, 240 pages, 9 rubles.

This handbook is based on the experience of the Moscow Petroleum Institute in the chemistry of petroleum during the last 12-15 years.

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14. "Surface Coating of Equipment and Metal Constructions in Chemical Plants" (Okraska Oborudovaniya i Metallokonstruktsiy na Khimicheskikh Zavodakh), A. D. Kazin and N. V. Korzin, edited by N. S. Zevin, Goskhimizdat, Moscow/Leningrad, 1949, 64 pages, 3 rubles.

Material is based on research of the laboratories of the Lakokraspokrytiye Trust.

15. "Chemical Thermodynamics" (Khimicheskaya Termodinamika), M. Kh. Karapet'yants, edited by N. N. Kobozev and V. A. Kireyev, Goskhimizdat, Moscow/Leningrad 1949, 528 pages, 23 rubles 20 kopeks.

16. "Additives Improving the Quality of Oils" (Prisadki, Uluchshayushchiye Eksploataatsionnyye Svoystva Masel), S. E. Kreyne and R. A. Lipshteyn, Gostoptekhnizdat, Moscow/Leningrad, 1949, 68 pages, 3 rubles 25 kopeks.

This handbook was compiled by the Office of Technical Information.

17. "An Index of Insecticides, Fungicides, and Fertilizers" (Opredelitel' Insektitsidov, Fungitsidov, i Udobreniy), P. V. Popov and N. I. Trushkina, Goskhimizdat, Moscow/Leningrad, 1949, 104 pages, 3 rubles 50 kopeks.

With the aid of this index, about 85 different types of insecticides, fungicides, and fertilizers can be determined without chemical analysis.

18. "Practicum for Organic Chemistry" (Praktikum Po Organicheskoy Khimii), N. D. Pryanishnikov, edited by A. Ye. Uspenskiy, Goskhimizdat, Moscow/Leningrad, 1949, 248 pages, 8 rubles 10 kopeks.

19. "Synthetic Liquid Fuel" (Iskusstvennoye Zhidkoye Toplivo), Part I, "Hydrogenation of Fuels," I. B. Rappoport, Gostoptekhnizdat, Moscow/Leningrad, 1949, 332 pages, 13 rubles.

20. "General Fuel Technology" (Obshchaya Tekhnologiya Topliva), N. I. Ryabtsev and A. M. Kunin, edited by I. M. Goykhrakh, Gostoptekhnizdat, Moscow/Leningrad 1949, 328 pages, 12 rubles.

Compiled by the Department of Schools, Glavazotpproma of the Soviet of Ministries USSR.

21. "Types of Synthetic Rubber" (Sinteticheskiye Kauchuki), N. I. Smirnov, Goskhimizdat, Moscow/Leningrad, 1949, 368 pages, 13 rubles 50 kopeks.

Series of lectures ready by the author in the Leningrad Technological Institute imeni Lensovet.

22. "The Technology of Ammonium Nitrate" (Tekhnologiya Ammiachnoy Selitry), A. M. Dubovitskiy and Ya. I. Kil'man, Goskhimizdat, Moscow/Leningrad, 1949, 240 pages and one enclosure, 13 rubles.

23. "Industrial Practice in Refining Sulfur-containing Petroleum" (Praktika Pererabotki Sernistoy Nefti), T. A. Kiselev, Gostoptekhnizdat, Moscow/Leningrad, 1949, 224 pages, 13 rubles.

The technological data is based on experience gained in refining sulfur-containing petroleum obtained in the "Second Baku" region.

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24. "A Complex Method of Detailed Investigation of the Individual Composition of Gasolines" (Kompleksnyy Metod Detalizirovannogo Issledovaniya Individual'nogo Sostava Benzinov), G. S. Landsberg, B. A. Kazanskiy, P. A. Bazhulin, M. I. Batuyev, A. L. Liberman, A. S. Plate, and G. A. Tarasova, edited by V. S. Fedorov, Gostoptekhnizdat, Moscow/Leningrad, 1949. 68 pages, 3 rubles.

Subject method is based on spectral analysis.

25. "An Aluminum Asphalt-Bitumen Paint" (Alyuminiyeveya Asfal'to-bitumnaya Kraska), A. A. Latyshev and A. D. Starkova, edited by B. R. Mirenskiy, Goskhimizdat, Moscow/Leningrad, 1949, 40 pages, 2 rubles.

Description of the paint Al - 2

26. "The Technology of Nitric Acid" (Tekhnologiya Azotnoy Kisloty), V. I. Atroshchenko and S. I. Kargin, Goskhimizdat, Moscow/Leningrad, 1949, 376 pages, 14 rubles 50 kopeks.

Textbook.

27. "Chemistry and Technology of Pigments" (Khimiya i Tekhnologiya Pigmentov) Ye. F. Belen'kiy and I. V. Raskin, Goskhimizdat, Moscow/Leningrad, 1949, 624 pages and three enclosures, 22 rubles

Textbook.

28. "Diffusion in Metals and Alloys" (Diffuziya v Metallakh i Splavakh), V. Bugakov, Gostekhnizdat, Moscow/Leningrad, 1949, 212 pages, 7 rubles 40 kopeks.

The first part of the monograph is devoted to atomic diffusion and the second part to reaction diffusion.

29. "Catalysis in Organic Chemistry" (Kataliz v Organicheskoy Khimii), B. N. Dolgov, Goskhimizdat, Moscow/Leningrad, 1949, 560 pages, 35 rubles.

30. "Nitrogenous and Vitamin Nutrition of Microbes" (Azotnoye i Vitaminnoye Pitaniye Mikrobov), N. D. Iyerusalimskiy, edited by A. A. Imshenetskiy, Academy of Sciences USSR, Moscow/Leningrad, 1949, 168 pages, 7 rubles.

A popular scientific work.

31. "The Chemistry of DDT" (Khimiya DDT), N. N. Mel'nikov, Goskhimizdat, Moscow/Leningrad, 1949, 120 pages, 6 rubles.

Research work done in the Scientific Institute of Fertilizers and Insectofungicides imeni Ya. V. Samoylov.

32. "Works" (Sochineniya), Vol XI, D. I. Mendeleev (this volume edited by Corresponding Member of the Academy of Sciences USSR N. M. Karavayev), Academy of Sciences USSR, Moscow/Leningrad, 1949, 584 pages and one enclosure, 38 rubles.

33. "Works", Vol XII, D. I. Mendeleev (this volume edited by Academician I. P. Bardin), Academy of Sciences USSR, Moscow/Leningrad, 1949, 1096 pages and ten enclosures with a map, 50 rubles.

34. "Propagation of Supersonic Waves in Liquids" (Rasprostraneniye Ul'trazvukovykh Voln v Zhidkostyakh), I. G. Mikhaylov, edited by Academicians S. I. Vavilov, A. F. Ioffe, P. I. Lukirskiy, and V. A. Fok, and Corresponding Member of the Academy of Sciences USSR Ya. I. Frenkel', Gostekhnizdat, Moscow/Leningrad, 1949, 152 pages, 5 rubles 60 kopeks.

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The propagation and absorption of supersonic waves are investigated for pure liquids, mixtures, solutions, and less completely for amorphous solid substances. The investigations reported are chiefly those of Soviet scientists in the last 20 years.

35. "Inorganic Chemistry" (Neorganicheskaya Khimiya), second editions supplemented and revised by I. G. Nagatkin, B. A. Pavlov, Goskhimizdat, Moscow/Leningrad, 1949, 336 pages, 10 rubles.

36. "Technology of Inorganic Salts" (Tekhnologiya Mineral'nykh Soley), M. Ye. Pozin, Goskhimizdat, Moscow/Leningrad, 1949, 688 pages, 23 rubles 80 kopeks.

Textbook.

37. "Selected Works" (Izbrannyye Trudy), A. Ye. Poray-Koshits, Academy of Sciences USSR, Moscow/Leningrad, 1949, 468 pages and four enclosures, 40 rubles.

38. "Flameless Surface Combustion" (Poverkhnostnoye Besplamennoye Goreniye), third supplemented edition, M. B. Ravich, Power Engineering Institute imen G. M. Krzhizhanovskiy, edited by A. V. Vinter, Academy of Sciences USSR, Moscow/Leningrad 1949, 356 pages, 28 rubles.

39. "Physicochemical Properties of a Ternary System" (Fiziko-Khimicheskiye Svoystva Troynoy Sistemy), edited by I. V. Grebenshchikov with numerous assistants, Academy of Sciences USSR, Moscow/Leningrad, 1949, 220 pages, 15 rubles.

Series of articles relating to the ternary system sodium oxide, lead monoxide, and silica.

40. "Physical Practicum" (Fizicheskiy Praktikum), K. P. Yakovlev, Gostekhnizdat, Moscow/Leningrad, 1949, 396 pages, 11 rubles 50 kopeks.

Laboratory handbook.

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